Table S1: Naturalistic longitudinal Studies of Cognition in HIV+ Individuals Stable on cART as of October 2016

Year	Author	Baseline HAND	Follow-up	NP Tests	Outcome & definition of	Primary Outcomes
		Rate	period		cognitive decline	
2016	Brouillette	BL HAND: 46%	Every 6 months	TMT, WAIS- III Digit	Individual Test Scores	15.8% declined on at least one NP test, the
	et al.		for 36 months	Symbol Coding, WAIS-	GBTA	majority (83.8%) showed decline on only a
				III Symbol Search,	No correction for practice	single test
				WCST, COWAT,	effects	Attrition >10%
				PASAT, WAIS-III LNS,		
				BVMT-R, HVLT-R,		
				Grooved Pegboard		
2006	Cysique et	BL HAND: 38.8%	6,15 &	NART, WAIS III Digit	Global Score	6 months- 30% HIV+ individuals classified
	al.		27 months	Span, TMT, SDMT,	Within Standard deviation based as declined, significantly higher than HI	
				Grooved Pegboard,	change score	controls.
				CVLT, RCFT, COWAT,	Mixed effect regression model	15 months: 5-13% HIV+ classified as
				WAIS-III Similarities		declined
						27 months: 5% HIV+ classified as declined
						Attrition >10%
2007	Cole et al.	BL HAND: NR	Every 6 months	TMT, SDMT	Individual test scores	NS difference between HIV+/- groups
			over 8 years		GEE model	Missing cases a priori excluded
					Linear Mixed Model	

2010	Cysique et	BL HAND: 34%	12	Color Trails, WCST,	Global Score	Decline in HIV+ participants (27%)
	al.		months	COWAT, PASAT,	SRB change score	significantly greater than HIV- participants
				WMS-III Spatial Span,	Repeated ANOVA	(5%)
				HVLT-R, BVMT-R,		Attrition <10%
				Grooved Pegboard,		
				WAIS-III Digit Span,		
				WAIS-III Symbol Search	,	
				TMT, Stroop		
2014	Heaton et	BL HAND: 46%	Every 6 months	TMT, WAIS- III Digit	Global Score	23% HIV+ participants declined across
	al.		over	Symbol Coding, WAIS-	SRB change score	duration of follow-up
			16-72 months	III Symbol Search,	Mixed effect regression model	Attrition >10%
				WCST, COWAT,		
				PASAT, WAIS-III, LNS,		
				BVMT-R, HVLT-R,		
				Grooved Pegboard		
2014	Seider et al.	BL HAND: NR	M=14.28	BVMT-R, HVLT-R	Individual test scores	HIV+ participants more likely to decline on
			months		No correction for practice	HVLT-R delay score compared to HIV-
					effects	participants.
					Repeated ANOVA	Attrition: NR
2015	Sheppard	BL HAND: 0%	12 months	WMS-III Logical	HAND diagnosis	HAND diagnosis at follow-up significantly
	et al.			Memory, CVLT-II,	No correction for pratice effects	higher in HIV+ participants (15.7%) as
				WMS-III Digit Span,	Logistic Regression	compared to impairment rate in HIV-
				TMT, TOL, Grooved		participants (3.2%)
				Pegboard		Attrition: >10%

2016	Saktor et al	BL HAND: 33%	~ every 2 years	TMT, Stroop, SDMT, N-	HAND diagnosis	BL to 2 years- 70% of the HIV individuals
			over 4 year	back RT, RAVLT,	No correction for pratice effects	remained at same HAND stage,15%
			period	RCFT, Grooved	Logistic Regrssion.	deteriorated in HAND stage, 15% improved
				Pegboard		in HAND stage
						2 yrs to 4 yrs- 71% of the HIV individuals
						remained at same HAND stage, 15%
						deteriorated in HAND stage, 14% improved
						in HAND stage
						(e.g., MND to ANI).
						BL to 4 years- 77% of the HIV individuals
						remained at same HAND stage, 13%
						deteriorated in HAND stage, 10% improved
						in HAND stage

HAND: HIV Associated Neurocognitive Disorder; NP: neuropsychological; BL: baseline; TMT: Trail Making Test; WAIS III: Wechsler Adult Intelligence Scale-Third Edition; WCST: Wisconsin Card Sorting Test; COWAT: Controlled Oral Word Association Test; PASAT: Paced Auditory Serial Addition Test; LNS: Letter Number Sequencing; HVLT- R: Hopkins Verbal Learning Test-Revised; BVMT-R: Brief Visuospatial Memory Test- Revised; GBTA: Group-Based Trajectory Analysis; NART: National Adult Reading Test; SDMT: Symbol Digit Modalities Test; CVLT: California Verbal Learning Test; RCFT: Rey Complex Figure Test; NR: not reported; GEE: Genrealised Estimating Equation; NS: not significant; SRB: standardised regression based; ANOVA; analysis of variance; WMS-III: Wechsler Memory Scale- 3rd Edition; CVLT: California Verbal Learning Test; TOL: Tower of London; NA: CVLT-II: California Verbal Learning Test- Second Edition: RT: reaction time; RAVLT: Rey Auditory Verbal Learning Test